MSc Control Systems - Module Selection Guidelines 2019-2020

You must be examined in at least 8 modules for this course. You can however, choose up to 9 modules in total. If you choose 9 modules, the lowest mark for your elective modules will not appear on your transcript and will not count towards your final classification.

1. You MUST choose at least 4 CORE modules from **Elective A**.
2. The remaining elective modules can be chosen from **Elective B** and **Elective C**. However, only ONE of your chosen elective modules can be picked from **Elective C**.

See below some examples of how your choices could be structured:

**Student A:** 4 CORE from **Elective A** plus 4 modules from **Elective B**

**Student B:** 4 CORE from **Elective A** plus 5 modules from **Elective B**

**Student C:** 4 CORE modules from **Elective A** plus 4 modules from **Elective B** and 1 module from **Elective C**

**Student D:** 5 CORE modules from **Elective A** plus 2 modules from **Elective B** and 1 module from **Elective C**

**Elective A** – [click here to find modules details]

- ELEC97017 (EE9-CS1-1) Control engineering
- ELEC97098 (EE9-CS1-2) Design of linear multivariable control systems
- ELEC97028 (EE9-CS1-3) Discrete-time systems and computer control
- ELEC97082 (EE9-CS2-1) Stability and control of nonlinear systems
- ELEC97063 (EE9-CS3-2) Optimization
- ELEC97071 (EE9-CS4-1) Predictive control
- ELEC97086 (EE9-CS5-2) Systems identification
- ELEC97036 (EE9-CS5-3) Estimation and fault detection

**Elective B** – [click here to find modules details]

- ELEC97026 (EE9-CS2-2) Discrete-event systems
- ELEC97054 (EE9-CS3-1) Mathematics for signals and systems
- ELEC97073 (EE9-CS5-1) Probability and stochastic processes
- ELEC97059 (EE9-CS6-1) Modelling and Control of Multi-body Mechanical Systems
- ELEC97067 (EE9-CS6-2) Power system dynamics, stability and control
- ELEC97087 (EE9-CS7-1) Topics in control systems
- EELEC97040 (EE9-CS7-2) Game theory

**Elective C** – [click here to find modules details]

The rules only allow ONE module to be selected from Elective C modules. Therefore, the module **Selected Topics in Computer Vision ELEC97053 (EE9-CS7-28)** has been removed, as it requires **Pattern Recognition** as a pre-requisite.

- ELEC97093 (EE9-CS7-21) Wavelets, representation learning and their applications
- ELEC97091 (EE9-CS7-22) Traffic theory and queuing systems
- ELEC97014 (EE9-CS7-23) Coding theory
- ELEC97049 (EE9-CS7-26) Information theory
- ELEC97076 (EE9-CS7-27) Real-time digital signal processing
- ELEC97065 (EE9-CS7-29) Pattern recognition

Updated by David Angeli on 29 October 2019